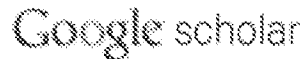


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GW Dunlap, ST King, S Cinar, MA Basrai, ... - ACM SIGOPS ..., 2002 - portal.acm.org

 ... **virtual machine monitor** (VMM) host platform ... A **virtual-machine monitor** (VMM) is a layer of software that emulates faithfully the hardware of a complete computer system (Figure 1) [Gotdberg74].

 The abstraction created by the **virtual machine monitor** is called a **virtual machine**. ...

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### [PDF] A **virtual machine** introspection based architecture for intrusion detection

T Garfinkel, M Rosenblum - Proc. Network and Distributed Systems ..., 2003 - Citeseer

 ... In our prototype system we sought to manage this overhead by only trapping events that would imply definite misuse (eg modification of sensitive memory that should never change at **runtime**). ...

**Virtual Machine Virtual Machine Monitor** callback or Response Policy Modules ...

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### Terra: A **virtual machine**-based platform for trusted computing

T Garfinkel, B Pfaff, J Chow, M Rosenblum, ... - ACM SIGOPS ..., 2003 - portal.acm.org

 ... Terra achieves this synthesis by use of a trusted **virtual machine monitor** (TVMM) that partitions a tamper-resistant hardware platform into multiple, isolated **virtual machines** (VM), providing the appearance of multiple boxes on a single, general-purpose platform. ...

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### Vmplants: Providing and managing **virtual machine** execution environments for grid computing

I Krsul, A Ganguly, J Zhang, JAB Fortes, ... - Proceedings of the ..., 2005 - ieeexplore.ieee.org

 ... clone" and instantiate a VM environment efficiently, and to **monitor** VM instances at **run-time**.

 This paper presents the VMPlant middleware for flexible VM customization and efficient cloning through a service-oriented architecture. VMPlant handles **virtual machine** creation and ...

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### The architecture of **virtual machines**

JE Smith, R Nair - Computer, 2005 - ieeexplore.ieee.org

 ... The virtualizing software that implements a process VM is often termed the **run-time**, short for "**runtime** software." The virtualizing software in a system VM is typically referred to as the **virtual machine monitor** (VMM). Figure ...

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### [PDF] The Jalapeno **virtual machine**

B Alpern, CR Altanasio, JJ Barton, MG Burke, P ... - IBM Systems ..., 2000 - cs.ucsb.edu

 ... A reference to this array is maintained in a dedicated **machine** register (the JTOC register). ... mechanism allows **run-time** access to fields (given their names and types) and **run-time** invocation of ... However, other **virtual** processors can put threads on this queue, so access to it is ...

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### [HTML] Antfarm: Tracking processes in a **virtual machine** environment

ST Jones, AC Arpaci-Dusseau, RH Arpaci- ... - Proceedings of the ..., 2006 - unix.org

 ... operating systems shows that it can accurately infer process events while incurring only a small 2.5% **runtime** overhead in the ... As virtualization becomes prevalent, the **virtual machine monitor** (VMM) naturally supplants the operating system as the primary resource manager for a ...

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### A case for grid computing on **virtual machines**

RJ Figueiredo, PA Dinda, JAB ... - Computing Systems, 2003 ..., 2003 - ieeexplore.ieee.org

 ... at instantiation time. It is also possible to implement mechanisms to limit the amount of resources utilized by a VM at **run-time** by implementing scheduling policies at the level of the **virtual machine monitor**. Unlike typical multi ...

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### [PDF] Retrace: Collecting execution trace with **virtual machine** deterministic replay

MXVMJ Sheldon, GVB Weissman - ... of the Third Annual Workshop on ..., 2007 - Citeseer

 ... Each benchmark is run 5 times and the average **runtime** is compared. ... In conclusion, ReTrace is a trace collection tool based on VMware's **virtual machine monitor** and deterministic replay. ReTrace has extremely low **run-time** overhead and high trace file compression ratio. ...

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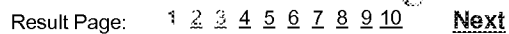
### [PDF] picoJava-I: The Java **virtual machine** in hardware

JM O'Connor, M Tremblay - IEEE Micro, 1997 - ece.umd.edu

 ... original instruction resolves which method or field is correct for the current **runtime** environment. ... Consequently, each **monitor** must also keep track of the number of times the current ... The **virtual machine** provides substantial leeway for the memory management implementation. ...

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